

Form PTO-1449  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>  <i>(Use several sheets if necessary)</i>		Docket Number (Optional) <b>3635.4US (98-0029.04/US)</b>  Application Number <b>N t yet assigned</b>  Applicant <b>Chapman et al.</b>  Filing Date <b>July 22, 2003</b>  Group Art Unit <b>Unknown</b>					
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	3,087,239	04/1963	Clagett				
	3,643,321	02/1972	Field et al.				
	4,030,657	06/1977	Scheffer				
	4,327,860	05/1982	Kirshenboin et al.				
	4,415,115	11/1983	James				
	4,434,347	02/1984	Kurtz et al.				
	4,513,190	04/1985	Ellett et al.				
	4,778,097	10/1988	Hauser				
	4,886,200	12/1989	Tsumura				
	4,974,767	12/1990	Alfaro et al.				
	5,003,373	03/1991	Tsumura et al.				
<b>FOREIGN PATENT DOCUMENTS</b>							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
<b>OTHER DOCUMENTS</b> <span style="float: right; font-size: small;">(Including Author, Title, Date, Pertinent Pages, Etc.)</span>							
EXAMINER 				DATE CONSIDERED 			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance not considered. Include copy of this form with next communication to the applicant.							

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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,148,959	09/1992	Cain et al.			
	5,172,851	12/1992	Matsushita et al.			
	5,217,154	06/1993	Elwood et al.			
	5,302,550	04/1994	Hirota et al.			
	5,421,503	06/1995	Perlberg et al.			
	5,437,405	08/1995	Asanasavest			
	5,445,306	08/1995	Huddleston			
	5,465,899	11/1995	Quick et al.			
	5,485,949	01/1996	Tomura et al.			
	5,516,029	05/1996	Grasso et al.			
	5,544,804	08/1996	Test et al.			

  

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<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	5,558,270	09/1996	Nachon et al.				
	5,603,445	02/1997	Hill et al.				
	5,662,261	09/1997	Fogal				
	5,871,141	02/1999	Hadar et al.				
	5,884,830	03/1999	Yamazaki et al.				
	5,891,796	04/1999	Nakamura et al.				
	5,931,368	03/1997	Hadar et al.				
	5,938,105	07/1997	Singh				
	5,984,162	11/1999	Hortaleza et al.				
	6,041,995	03/2000	Takahashi et al.				
	6,158,647	12/2000	Chapman et al.				
	6,311,890	11/2001	Chapman et al.				
	6,371,356	04/2002	Senuma				
	6,439,450	08/2002	Chapman et al.				
	6,595,406	07/2003	Chapman et al.				
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						YES	NO
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